AMENDMENTS TO THE CLAIMS

The amendments to the listing of claims serves to replace prior versions of the claims.

Listing of claims

1. (Currently amended)	An assembly comprising a gas-filled microvesicle bearing a first
overall net charge and a com	ponent associated with said microvesicle wherein said component is
a supermolecular structure for	ormed by the association of a plurality of molecules, which bears a
second overall net charge op	posite in sign to said first net charge, comprises a biocompatible
surface active agent and has	a diameter of 100 nm or lower.

- 2. (Original) An assembly according to claim 1 wherein said associated component has a diameter of 80 nm or lower.
- 3. (Original) An assembly according to claim 1 wherein said associated component has a diameter of 50 nm or lower.
- 4. (Original) An assembly according to claim 1 wherein said associated component comprises a targeting ligand, a bioactive agent, a diagnostic agent or any combination thereof.
- 5. (Original) An assembly according to claim 4 further comprising a second component bearing an overall net charge, optionally comprising a different targeting ligand, bioactive agent, diagnostic agent or any combination thereof.
- 6. (Original) An assembly according to claim 5, wherein said second component bears an overall net charge equal in sign with respect to the charge of the microvesicle.
- 7. (Original) An assembly according to claim 1 wherein said biocompatible surface active agent is an amphiphilic material.

- 8. (Original) An assembly according to claim 1 wherein said biocompatible surface active agent is selected among (C_2-C_{10}) organic acids, organic fatty acids comprising a $(C_{12}-C_{24})$ aliphatic chain, pharmaceutically acceptable salts thereof, esters thereof with polyoxyethylene; polyionic (alkali) salts; organic amines; amides; quaternary amine salts; aminoacids; phospholipids; ; esters of mono- or oligo-saccharides with $(C_{12}-C_{24})$, organic fatty acids; organic sulfonates; perfluoroorganic acids; polymeric surfactants; and mixtures thereof.
- 9. (Original) An assembly according to claim 1 wherein the ratio between the number of charges per mole of microvesicles and the number of charges per mole of the second component is from about 10:1 to about 1:10.
- 10. (Original) An assembly according to claim 9 wherein said ratio is of about 3:1 or less.
- 11. (Original) An assembly according to claim 9 wherein said ratio is of about 2:1 or less.
- 12. (Original) An assembly according to claim 1 wherein said microvesicle is a microbable stabilized by an envelope comprising an amphiphilic film-forming compound or a microballoon having a material envelope.
- 13. (Previously presented) An assembly according to claim 12 wherein said amphiphilic film-forming compound is a phospholipid.
- 14. (Original) An assembly according to claim 13 wherein said envelope comprises a phospholipid or a lipid bearing a positive or negative net charge.
- 15. (Original) An assembly according to claim 14 wherein said phospholipid or lipid is selected from phosphatidylserine derivatives, phosphatidic acid derivatives, phosphatidylglycerol derivatives, polyethyleneglycol modified phosphatidylethanolamines, ethylphosphatidylcholine derivatives and the respective lyso-forms; cholic acid salts; deoxycholic acid salts; glycocholic acid salts; $(C_{12}-C_{24})$ fatty acid salts thereof; alkylammonium

salts comprising at least one (C_{10} - C_{20}) alkyl chain; tertiary or quaternary ammonium salts comprising at least one (C_{10} - C_{20}) acyl chain linked to the nitrogen atom through a (C_3 - C_6) alkylene bridge; and mixtures thereof.

- 16. (Original) An assembly according to claim 12 wherein the material envelope of said microballoon comprises a polymeric material, a proteinaceus material, a water insoluble lipid or any combination thereof.
- 17. (Previously presented) An assembly according to claim 12 wherein the material envelope of said microballoon comprises an ionic biodegradable polymer.
- 18. (Original) An assembly according to claim 13 wherein the material envelope of said microballoon further comprises a phospholipid or a lipid bearing a positive or negative net charge.
- 19. (Original) An assembly according to claim 18 wherein said phospholipid or lipid is selected from phosphatidylserine derivatives, phosphatidic acid derivatives, phosphatidylglycerol derivatives, polyethyleneglycol modified phosphatidylethanolamines, ethylphosphatidylcholine derivatives and the respective lyso-forms; cholic acid salts; deoxycholic acid salts; glycocholic acid salts; $(C_{12}-C_{24})$ fatty acid salts thereof; alkylammonium salts comprising at least one $(C_{10}-C_{20})$ alkyl chain; tertiary or quaternary ammonium salts comprising at least one $(C_{10}-C_{20})$ acyl chain linked to the nitrogen atom through a (C_3-C_6) alkylene bridge; and mixtures thereof.
- 20. (Previously presented) An assembly according to claim 1, wherein said component associated with said microvesicle is a micelle.
- 21. (Original) An assembly according to claim 20 wherein said micelle comprises a polyethyleneglycol modified phospholipid; an alkylammonium salt comprising at least one $(C_{10}-C_{20})$ alkyl chain; a tertiary or quaternary ammonium salt comprising at least one $(C_{10}-C_{20})$ acyl chain linked to the nitrogen atom through a (C_3-C_6) alkylene bridge; a $(C_{12}-C_{24})$ fatty acid salt; a polymeric surfactant; or mixtures thereof.

- 22. (Original) An assembly according to claim 20 wherein said micelle comprises a $(C_{12}-C_{24})$ fatty acid di-esters of phosphatidylcholine, ethylphosphatidylcholine, phosphatidylglycerol, phosphatidic acid, phosphatidylethanolamine, phosphatidylserine or sphingomyelin.
- 23. (Original) An assembly according to claim 20 wherein said micelle comprises a phospholipid or a lipid bearing a positive or negative net charge, or a polymeric ionic surfactant.
- An assembly according to claim 23 wherein said phospholipid or lipid is selected from phosphatidylserine derivatives, phosphatidic acid derivatives, phosphatidylglycerol derivatives, polyethyleneglycol modified phosphatidylethanolamines, ethylphosphatidylcholine derivatives and the respective lyso-forms; cholic acid salts; deoxycholic acid salts; glycocholic acid salts; $(C_{12}-C_{24})$ fatty acid salts thereof; alkylammonium salts comprising at least one $(C_{10}-C_{20})$ alkyl chain; tertiary or quaternary ammonium salts comprising at least one $(C_{10}-C_{20})$ acyl chain linked to the nitrogen atom through a (C_3-C_6) alkylene bridge; and mixtures thereof.
- 25. (Previously presented) An assembly according to claim 1 wherein said component associated with said microvesicle is a colloidal nanoparticle.
- 26. (Previously presented) An assembly according to claim 1 wherein said component associated with said microvesicle is a solid polymeric nanoparticle.
- 27. (Previously presented) An aqueous suspension of a physiologically acceptable liquid comprising an assembly according to any one of claims 1 or 4.
- 28. (Previously presented) An assembly according to claim 1, wherein an aqueous suspension of said assembly in a pharmaceutically acceptable carrier shows a ζ -potential which is decreased of at least 50% in absolute value with respect to the ζ -potential of an aqueous suspension in the same carrier of the gas-filled microvesicles forming said assembly.

- 29. (Original) An assembly according to claim 28 wherein said ζ -potential is decreased of at least 75% in absolute value.
- 30. (Original) An assembly according to claim 28 wherein said ζ -potential is decreased of about 100% or more in absolute value.
- 31. (Currently amended) A pharmaceutical kit which separately comprises:
- a) a gas-filled microvesicle, or a precursor thereof, bearing a first overall net charge as a first component;
- b) a second component, or a precursor thereof, associable with said microvesicle bearing a second overall net charge opposite in sign to said first net charge, wherein said associated component is a supermolecular structure formed by the association of a plurality of molecules having a diameter of 100 nm or lower.
- 32. (Original) A pharmaceutical kit according to claim 31 further comprising a pharmaceutically acceptable liquid carrier.
- 33. (Original) A pharmaceutical kit according to claim 32 wherein said first and second components are in the form of separate freeze-dried preparations.
- 34. (Currently amended) A pharmaceutical kit which comprises:
- a) a gas-filled microvesicle, or a precursor thereof, bearing a first overall net charge as a first component;
- b) a second component, or a precursor thereof, associated with said microvesicle bearing a second overall net charge opposite in sign to said first net charge, wherein said associated component is a supermolecular structure formed by the association of a plurality of molecules comprising a biocompatible surface active agent and having a diameter of 100 nm or lower.
- 35. (Previously presented) A method for preparing an assembly according to claim 1, which comprises admixing a preparation comprising gas-filled microvesicles or a precursor thereof

with a preparation comprising a component or a precursor thereof to be associated to said microvesicles.

- 36. (Previously presented) A method according to claim 35 which comprises:
 - 1) preparing a first aqueous suspension comprising a gas-filled microvesicle;
- 2) preparing a second aqueous suspension comprising a component to be associated with said gas-filled microvesicle;
- 3) admixing said two suspensions, to obtain an aqueous suspension comprising said assembly.
- 37. (Previously presented) A method according to claim 35 which comprises:
 - 1) preparing a first aqueous suspension comprising a gas-filled microvesicle;
 - 2) freeze-drying said suspension, to obtain a first lyophilized product;
- 3) preparing a second suspension comprising a component to be associated with said gasfilled microvesicle;
 - 4) freeze-drying said suspension, to obtain a second lyophilized product;
- 5) reconstituting said first and said second lyophilized product with a physiologically acceptable aqueous carrier in the presence of a gas, to obtain an aqueous suspension comprising the assembly.
- 38. (Previously presented) A method according to claim 37, wherein step 5) comprises the steps of:
- a) reconstituting the second lyophilized product with a physiologically acceptable aqueous carrier to obtain a suspension comprising the component to be associated to the gas-filled microvesicle; and
 - b) reconstituting the first lyophilized product with said suspension in the presence of a gas.
- 39. (Previously presented) A method according to claim 35 which comprises:
- 1) preparing an aqueous emulsion comprising an organic solvent, a phospholipid and a lyoprotecting agent;
- 2) preparing an aqueous suspension comprising a component to be associated with a gasfilled microvesicle;

- 3) admixing said aqueous suspension with said aqueous emulsion; and
- 4) freeze drying the mixture to remove the water and the organic solvent, to obtain a lyophilized product comprising said assembly.
- 40. (Currently amended) A method for preparing an assembly comprising a gas-filled microvesicle bearing a first overall net charge and a component associated with said microvesicle wherein said component bears a second overall net charge equal in sign to said first net charge, and is a supermolecular structure formed by the association of a plurality of molecules which comprises a biocompatible surface active agent and has a diameter of 100 nm or lower, wherein said method comprises admixing the second component with the assembly obtained according to claim 35.
- 41. (Previously presented) An assembly according to claim 20 wherein said component comprises a targeting ligand, a bioactive agent, a diagnostic agent or any combination thereof.
- 42. (Currently amended) A pharmaceutically active formulation comprising an assembly according to any one of claims 1, 4, 20 or 41.
- 43. (Previously presented) A method for ultrasound diagnostic imaging which comprises administering a contrast-enhancing amount of an aqueous suspension of an assembly according to any one of claims 1, 4, 20 or 41.
- 44. (Previously presented) A method of therapeutic treatment which comprises administering a therapeutically-effective amount of an aqueous suspension of an assembly comprising a bioactive agent as defined in any one of claims 4 or 41.
- 45. (Previously presented) An aqueous suspension of a physiologically acceptable liquid comprising an assembly according to any one of claims 20 or 41.